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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,949	08/21/2003	Andreas C. Pfahnl	077311-0117	2973
65902 TED A DVNIE	7590 12/28/2007		EXAM	INER
TERADYNE, INC. c/o FOLEY & LARDER, LLP			FORD, JOHN K	
111 HUNTING 26TH FLOOR	GTON AVENUE		ART UNIT	PAPER NUMBER
BOSTON, MA	BOSTON, MA 02199-7610		3744	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/646,949	PFAḤNL ET AL.				
Office Action Summary	Examiner	Art Unit				
·	John K. Ford	3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status Status						
1) Responsive to communication(s) filed on 21 September 2007.						
· · · / • · · · · · · · · · · · · · · ·	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) 49,19 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-25 are subject to restriction and/o	wn from consideration,asto ron-o	elected species.				
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

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Applicant's response of 21 September 2007 has been carefully considered. Applicant's response to the previous rejections has been to essentially change the overall combination claimed from a heat exchanger system of generic utility in cooling a generic electronic component into one specifically claimed in combination with a "testhead." If any of these new claims are interpreted by applicant to be directed to something other than a combined "testhead" and cooling system, applicant is required to state the same in response to this office action. In the absence of any such response the examiner's understanding that all of the claims are directed to a combined "testhead" and cooling system will be established as fact for this prosecution. Such a dramatic change at this late stage of prosecution will necessitate that the examiner conduct a new search in the area of automated testheads and it is the examiner's wish to indicate some allowable subject matter once the scope of these claims is precisely ascertained and a search is conducted. On page 1, lines 21-28 of the specification, applicant describes as conventional "six-degrees of freedom" testheads as claimed in newly submitted claim 22. To the examiner's knowledge and belief none of the prior art illustrates what these prior art "six-degrees of freedom" testheads actually look like and give any indication if they are used in an inverted position as claimed in new claim 23. Pursuant to applicant's responsibility under 37 CFR 56, the examiner is requiring an identification of any prior art already of record that shows such a "six-degrees of freedom" testhead. If none is of record, a carefully prepared sketch or suitable publication showing one is required in response to this office action including details of the prior art cooling system used to cool this prior art "six-degrees of freedom"

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testhead. This will greatly facilitate searching and examination of this newly claimed combination. It is understood that the assignee of the current application is engaged in the manufacture of such automated "testheads". The method and apparatus claims are starting to take on divergent limitations that necessitate a further restriction of invention to keep the examination tractable within the limited time allotted for examination.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-4, 7-22 and 25, drawn to a combined testhead and cooling system for the testhead and the electronics contained therein, classified in class 324, subclass 760.
- II. Claims 5, 6, 23 and 24, drawn to a method of cooling a testhead in, among other positions, an inverted position, classified in class 324, subclass 758.

The inventions are independent or distinct, each from the other because:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process as claimed can be practiced by at least four patenatably distinct pieces of apparatus as illustrated in Figures 3, 4, 5 and 6.

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Furthermore, the apparatus can be used to practice a materially different process such as cooling in a stationary testhead that is not moved or inverted in operation.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

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distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John K. Ford whose telephone number is 571-272-4911. The examiner can normally be reached on Mon.-Fri. 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John K. Ford Primary Examiner